MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

NOTICE OF ACCEPTANCE (NOA)

HWD Acquisition, Inc. dba Hurd Windows & Doors
575 South Whelen Avenue
Medford, WI 54451

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Feel Safe" Outswing Aluminum Clad Wood Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1403**, titled "Feel Safe Aluminum Clad Wood Impact Operable Casement Window, sheets 1 through 6 of 6, dated 07/21/05, with revision **C1** dated 10/04/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 11-0517.02** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

MIAMI-DADE COUNTY APPROVED

HWD Acquisition, Inc. dba Hurd Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **1403**, titled "Feel Safe Aluminum Clad Wood Impact Operable Casement Window, Sheets 1 through 6 of 6, dated 7/21/05, with revision C1 dated 10/04/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of an aluminum clad wood casement window, prepared by Stork Twin City Testing Corporation ,Test Report No. **STCTC-180-7776.1** dated 03/04/09, signed and sealed by Tom Kolden, P.E.
   (Submitted under previous NOA #09-0714.05)
2. Test Report on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of an aluminum clad wood casement window, prepared by Stork Twin City Testing Corporation ,Test Report No. **STCTC-180-7705.1** dated 11/07/09, signed and sealed by Tom Kolden, P.E.
   (Submitted under previous NOA #09-0714.05)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum clad casement windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-60529.01-602-18**, dated 10/11-14/05, signed and sealed by Joseph A. Reed, P.E.
   (Submitted under previous NOA #06-0130.03)

Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-1006.05
Expiration Date: June 29, 2016
Approval Date: November 17, 2011

B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of 6 specimens each consisting of three-panel configuration of aluminum clad casement windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-522274.04-602.18**, dated 07/28/04, signed and sealed by Joseph A. Reed, P.E.
(Submitted under previous NOA #06-0130.03)

C. CALCULATIONS:

1. Anchor Calculations and structural analysis, complying with FBC-2007 and FBC-2010, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 06/29/09, 05/12/11, and 10/04/11, signed and sealed by Warren W. Schaefer, P.E.

2. Glazing complies with ASTM E1300-04.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **08-1118.07** issued to **Oldcastle Glass Inc.** for their "**StormGlass Glass Interlayer**", dated 03/05/09, expiring on 12/11/13.

2. Notice of Acceptance No. **09-0223.05** issued to **Solutia, Inc.** for their "**Saflex Multi-layer Glass Interlayer**" dated 04/08/09, expiring on 04/08/14.

F. STATEMENTS

1. Statement letter of conformance to the FBC-2010, dated 10/04/11, signed and sealed by Warren W. Schaefer, P.E.

2. Statement letter of no financial interest, dated 10/04/11, signed and sealed by Warren W. Schaefer, P.E.

G. OTHERS

1. Notice of Acceptance No. **11-0517.02**, issued to HWD Acquisition, Inc. dba Hurd Windows & Doors for their Series "Feel Safe" Outswing Aluminum Clad Wood Casement Window – L.M.I., approved on 07/14/11 and expiring on 06/29/16.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-1006.05
Expiration Date: June 29, 2016
Approval Date: November 17, 2011

GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCALS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. All WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

CORNER CONSTRUCTION:

WOOD FRAME: SQUARE CUT, RABBETED, SILICONE SEALED & SECURED WITH THREE (3) 16 GA. X 1/2" X 2" CROWN STAPLES.

FRAME CLAD: MITER CUT, JOINED WITH A CORNER KEY & TWO (2) NO. 7 X 1/2" SCREWS & SEALED WITH A FOAM GASKET.

WOOD SASH: MORTISE & TENON CONSTRUCTION AND SECURED WITH TWO (2) 14 GA. X 2 1/2" T-NAILS.

SASH CLAD: SQUARE CUT, BUTTED TOGETHER AND SNAP FIT TO SASH AND SEALED WITH SILICONE.

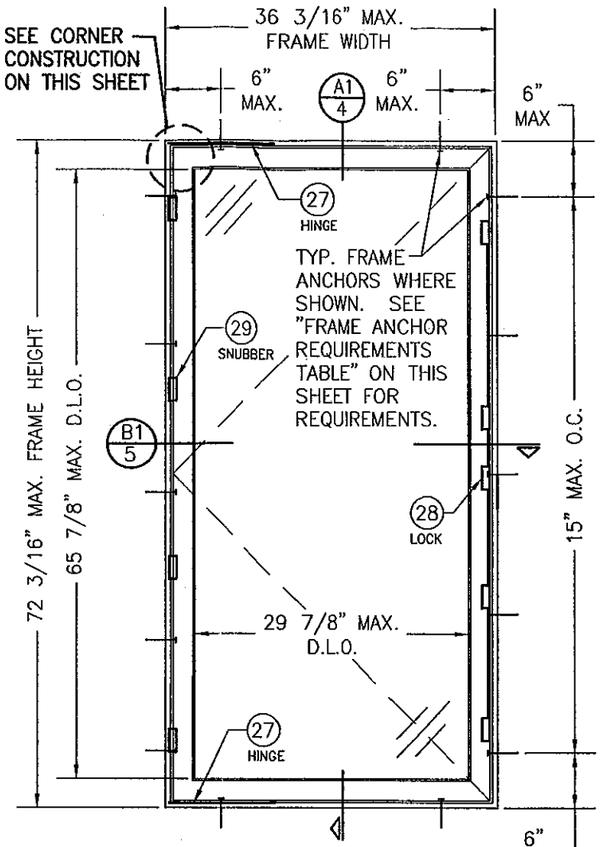
LOCK REQUIREMENTS	
MAX. FRAME HEIGHT	NO. OF LOCK STRIKES
72 3/16"	5
60 3/16"	4
48 3/16"	3
32 3/16" & LESS	2

SNUBBER REQUIREMENTS	
MAX. FRAME HEIGHT	NO. OF SNUBBERS REQUIRED
72 3/16"	4
53 3/16"	3
34 3/16" & LESS	2

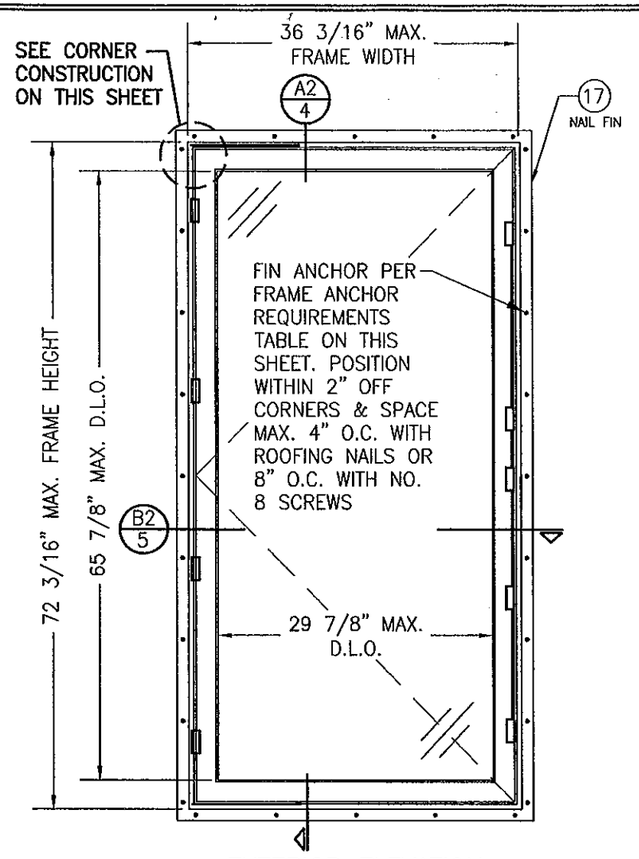
FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 1/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	11 GA. ROOFING NAIL	1 3/4"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).
(2) NAIL FIN SCREWS SHALL BE A PAN HEAD OR HEX HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.



EXTERIOR ELEVATION
SINGLE WINDOW
(FRAME SCREW MOUNT)
SCALE: 3/4"=1'-0"



EXTERIOR ELEVATION
SINGLE WINDOW
(FIN MOUNT)
SCALE: 3/4"=1'-0"

FOR INFORMATION NOT SHOWN, SEE FRAME SCREW MOUNTED SINGLE WINDOW ELEVATION

ALLOWABLE DESIGN PRESSURE
(SINGLE WINDOWS)

GLASS OPTION	MAXIMUM FRAME WIDTH (IN.)	MAXIMUM FRAME HEIGHT (IN.)	ALLOWABLE PRESSURE	
			POSITIVE (PSF)	NEGATIVE (PSF)
1	36 3/16	72 3/16	65	70
2 & 3	36 3/16	60 3/16	65	85
4	36 3/16	72 3/16	65	65
4	32 3/16	72 3/16	65	70
4	36 3/16	68 3/16	65	70
SEE GLAZING DETAILS FOR GLASS OPTIONS				

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1006.05
Expiration Date June 29, 2016
By Manuel Perez
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

NO.	REVISION DESCRIPTION	BY	DATE
A1	ADD TWIN WINDOW WITH TRANSOM	WRM	06/29/09
B1	CONDITION / CHANGE MANUFACTURER NAME	WRM	06/29/11
C1	UPDATE CONSULTANT ADDRESS	WRM	10/04/11

DRAWN BY: S.T.R. | CHECKED BY: W.W.S.
PLOT: 1=16 | DATE: 7/21/05

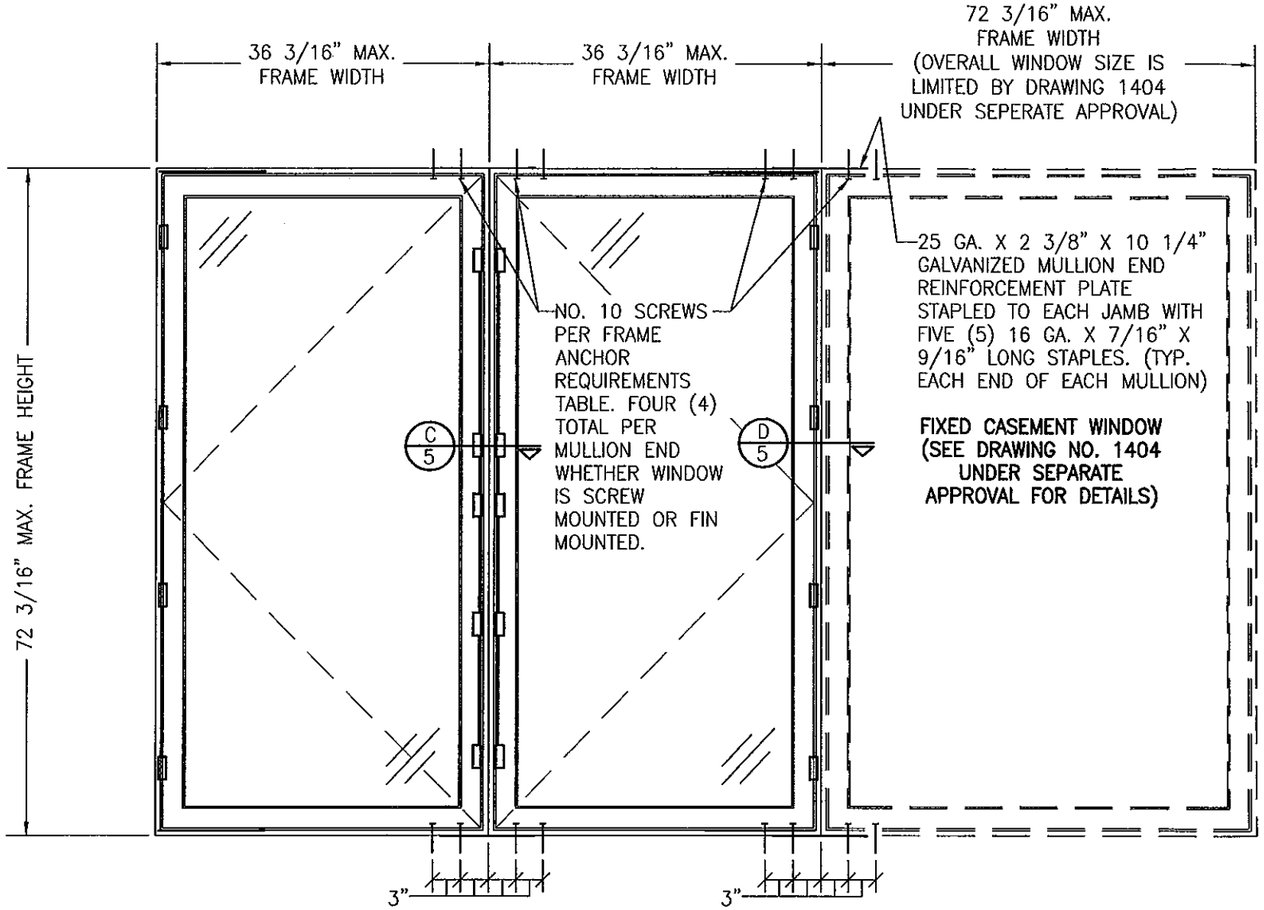
DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW

MANUFACTURER: HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS
575 S. WHELEN AVE.
MEDFORD, WI 54451
800-433-4873

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
OCT 04 2011
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1403 | REV. C
SHEET NO. 1 OF 6

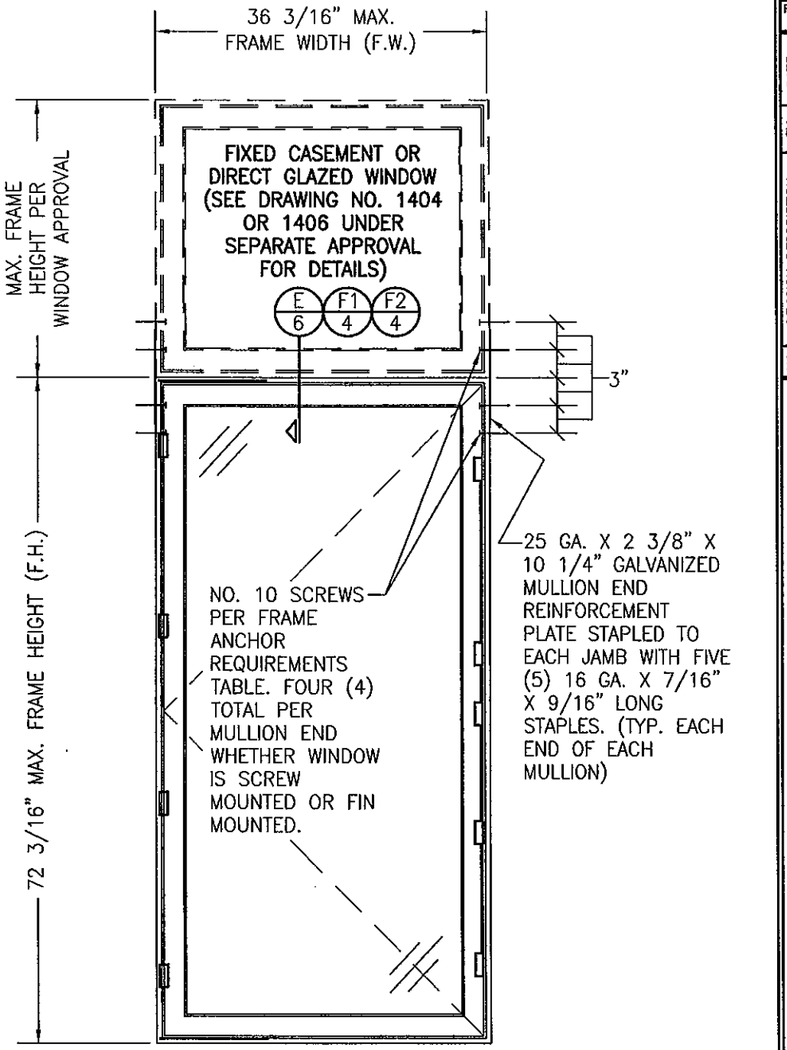


EXTERIOR ELEVATION
MULTIPLE SIDE-BY-SIDE OPERABLE/FIXED WINDOWS

SCALE: 3/4"=1'-0"

(FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS)
(TRIPLE WINDOW SHOWN. MORE THAN 3 WINDOWS MAY BE COMBINED HORIZONTALLY IN ONE OPENING IN ANY COMBINATION OF FIXED & OPERABLE)
NOTE: FOR FIXED TO FIXED, SEE DRAWING 1404 UNDER SEPARATE APPROVAL

FOR INFORMATION NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS ON SHEET 1



EXTERIOR ELEVATION
SINGLE WINDOW WITH TRANSOM

SCALE: 3/4"=1'-0"

(FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS)

FOR INFORMATION NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS ON SHEET 1

ALLOWABLE DESIGN PRESSURE
(SIDE-BY-SIDE & SINGLE WINDOW WITH TRANSOM)

MULLED UNIT ALLOWABLE DESIGN PRESSURE & INDIVIDUAL WINDOW SIZES WITHIN A MULLED UNIT SHALL BE LIMITED BY THE INDIVIDUAL WINDOW REQUIREMENTS AS SPECIFIED IN THE ALLOWABLE DESIGN PRESSURE TABLE ON SHEET 1.

PRODUCT REVISED
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Miami Dade Product Control

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DRAWN BY: S.T.R. | CHECKED BY: W.W.S.
PLOT: 1=16 | DATE: 7/21/05

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW

MANUFACTURER
HWD ACQUISITION, INC. dba
HURD WINDOWS & DOORS
575 S. WHELEN AVE.
MEDFORD, WI 54451
800-433-4873

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
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WARREN W. SCHAEFER, P.E.
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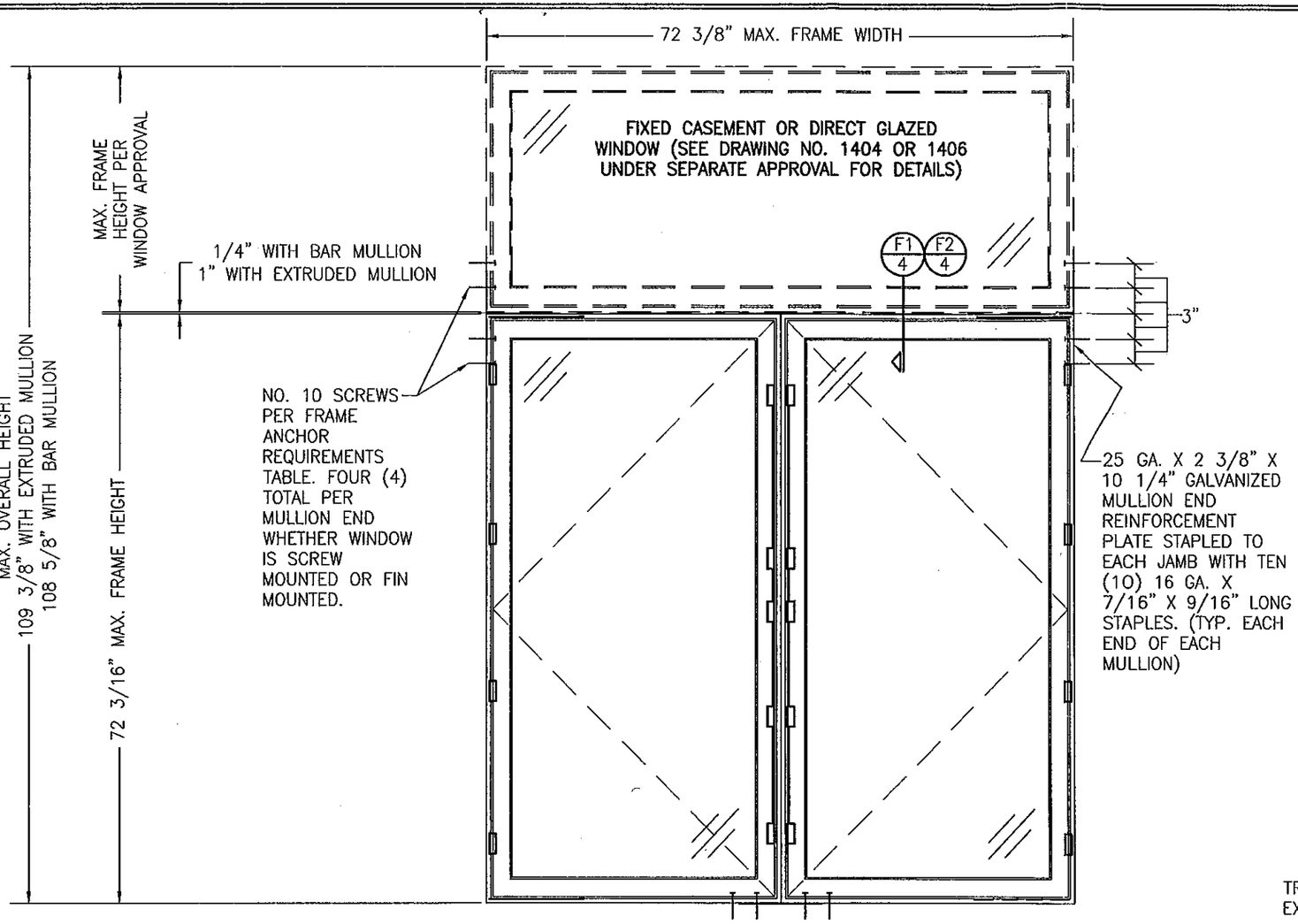
DRAWING NO. 1403 | REV. C
SHEET NO. 2 OF 6



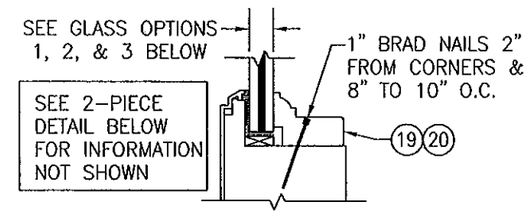
EXTERIOR ELEVATION
TWIN WINDOW WITH TRANSOM

SCALE: 3/4"=1'-0"

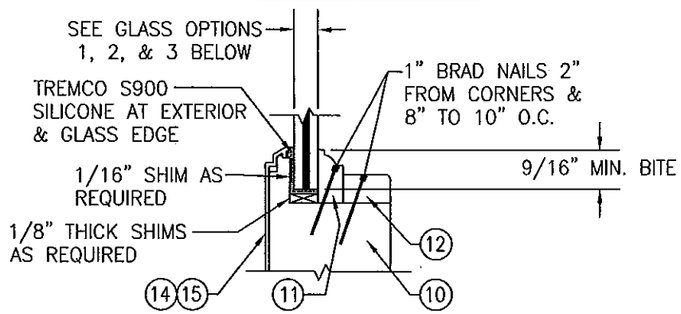
ELEVATION NOTES:

1. FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE SINGLE WINDOW ELEVATIONS.
2. TWIN WINDOWS ARE SHOWN AS "XX". "XO" WINDOW ALSO APPLIES WITH "O" WINDOW BEING A FIXED CASEMENT WINDOW UNDER SEPARATE APPROVAL DRAWING NO. 1404

ALLOWABLE DESIGN PRESSURE (TWIN WINDOW WITH TRANSOM)
AS CONTROLLED BY THE INDIVIDUAL WINDOW ALLOWABLE PRESSURES (NOT TO EXCEED +65/-70 PSF)



NON-I.G. GLAZING DETAIL WITH 1-PIECE GLAZING BEAD

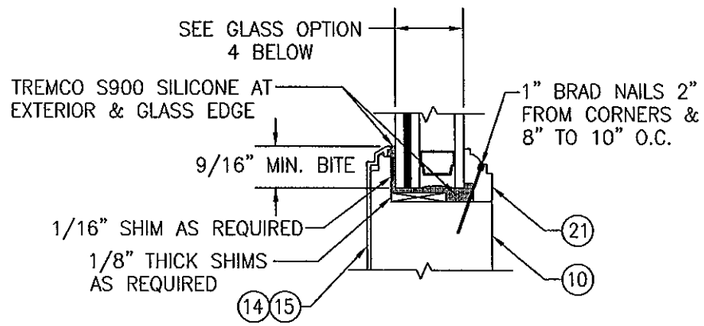


NON-I.G. GLAZING DETAIL WITH 2-PIECE GLAZING BEAD

OPTION 1: 3/8" LAMINATED GLASS BY OLDCASTLE (5/32" AN/0.09 SOLUTIA SAFLEX IIIG PVB/5/32" AN)

OPTION 2: 9/16" LAMINATED GLASS BY OLDCASTLE (1/4" AN/0.075 OLDCASTLE STORM GLASS/1/4" AN)

OPTION 3: 9/16" LAMINATED GLASS BY OLDCASTLE (1/4" AN/0.09 SOLUTIA SAFLEX IIIG PVB PVB/1/4" AN)



TYPICAL I.G. GLAZING DETAIL

OPTION 4: 7/8" LAMINATED I.G. BY OLDCASTLE (1/8" AN./0.09" SOLUTIA SAFLEX IIIG PVB/1/8" AN. EXTERIOR; 7/16" SPACER; 1/8" TEMP. INTERIOR)

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Miami-Dade Product Control

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

OCT 04 2011

DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 7/21/05

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW

MANUFACTURER
HWD ACQUISITION, INC. dba
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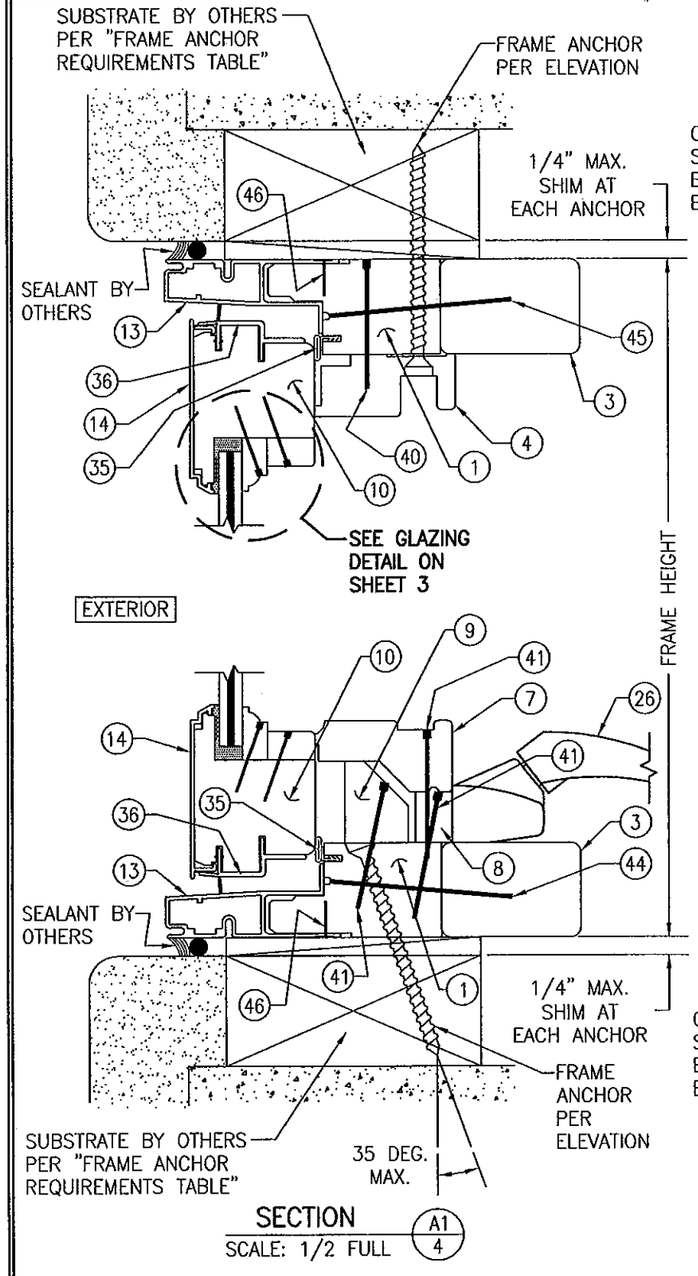
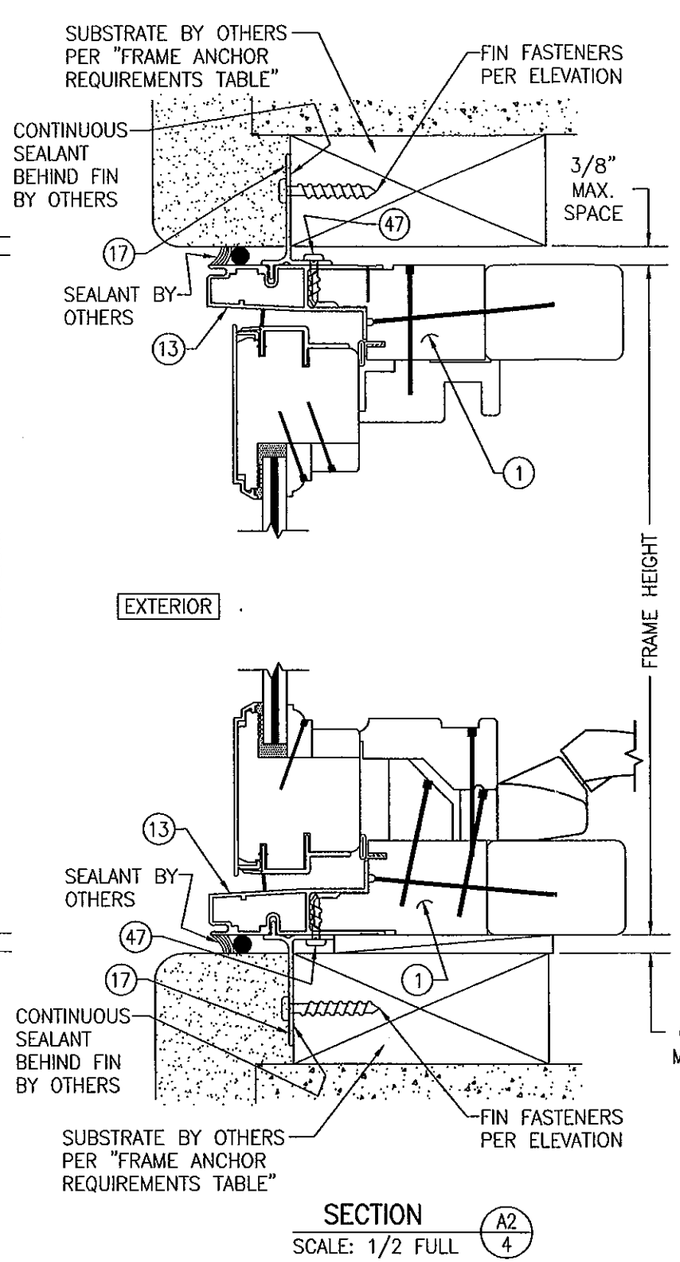
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.	REV.
1403	C

SHEET NO.
3 OF 6

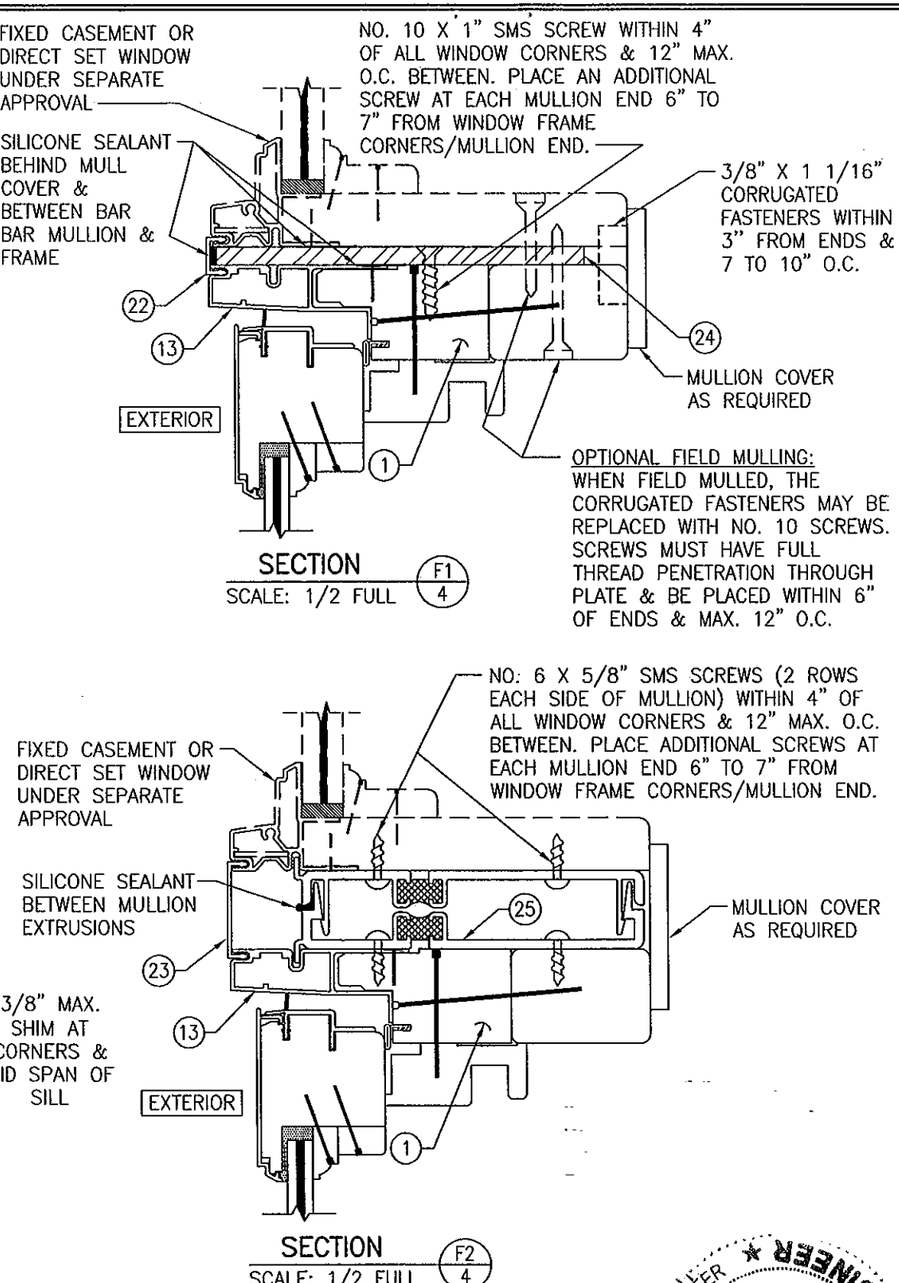


SECTION A1/4
SCALE: 1/2 FULL



SECTION A2/4
SCALE: 1/2 FULL

(SEE SECTION A1/4 FOR DETAILS NOT SHOWN)



SECTION F1/4
SCALE: 1/2 FULL

SECTION F2/4
SCALE: 1/2 FULL

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1006.05
Expiration Date June 29,2016
By Manuel Perez
Miami Dade Product Control

WARREN W. SCHAEFER LICENSE No. 44135 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 7/21/05

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW

MANUFACTURER
HWD ACQUISITION, INC. dba
HURD WINDOWS & DOORS
575 S. WHELEN AVE.
MEDFORD, WI 54451
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CONSULTANTS
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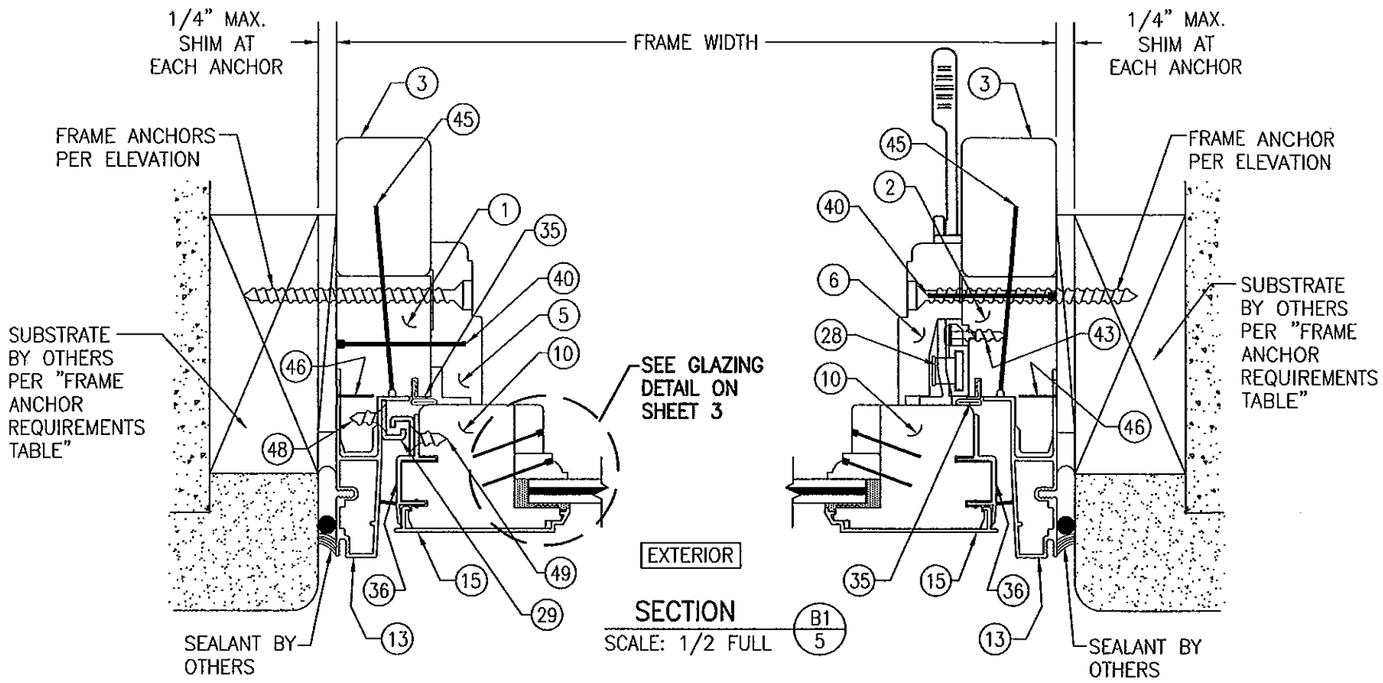
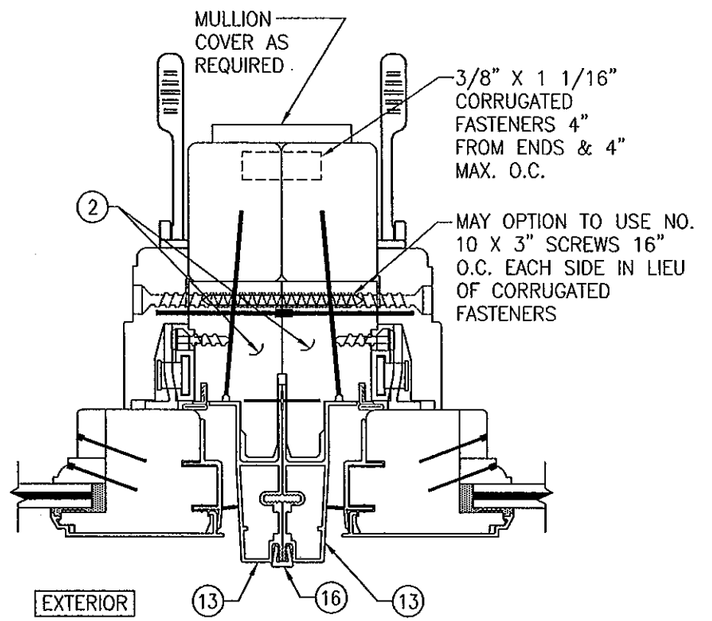
PHONE: 561-744-3424

CERTIFICATION
OCT 04 2011
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1403
REV. C
SHEET NO. 4 OF 6

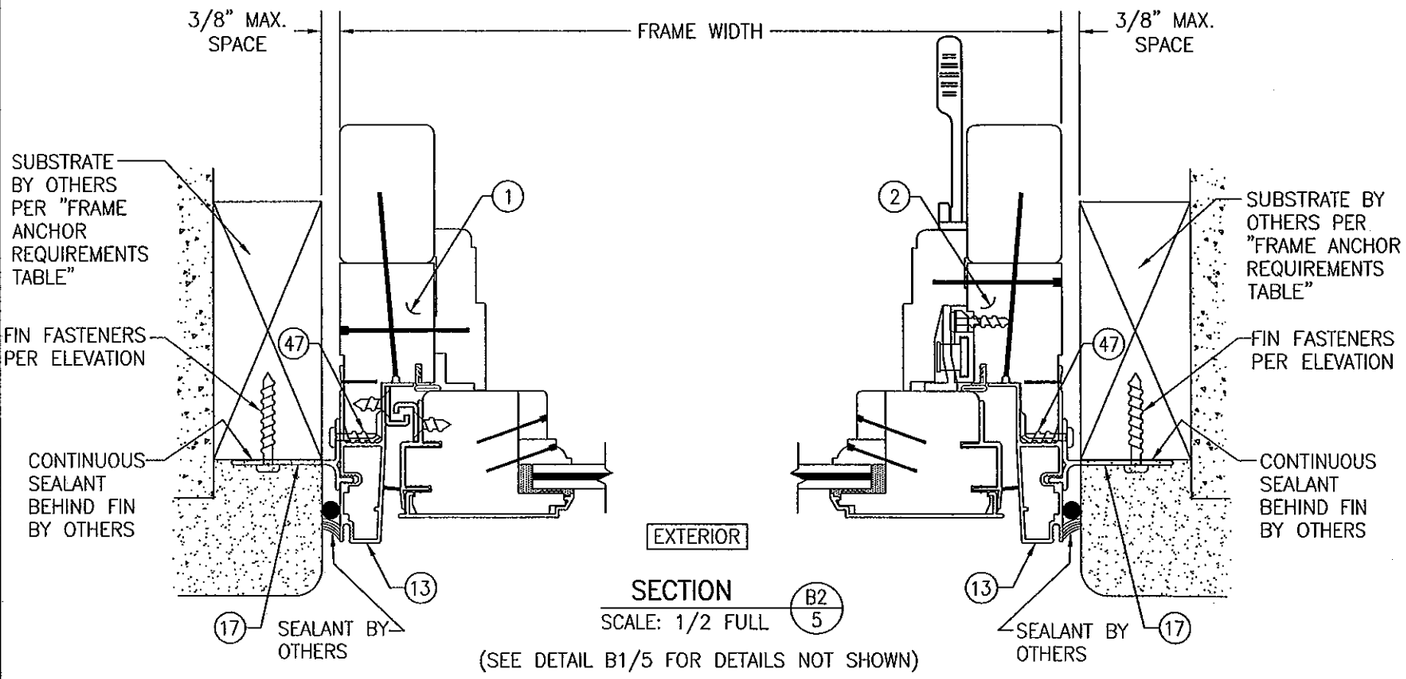


SECTION B1/5
SCALE: 1/2 FULL



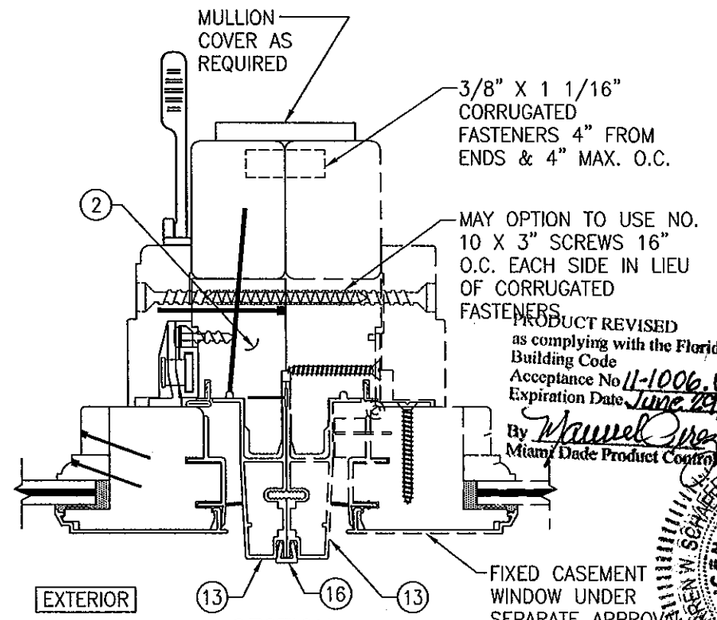
SECTION C/5
SCALE: 1/2 FULL

(SEE SECTION B1/5 FOR DETAILS NOT SHOWN)



SECTION B2/5
SCALE: 1/2 FULL

(SEE DETAIL B1/5 FOR DETAILS NOT SHOWN)



SECTION D/5
SCALE: 1/2 FULL

(SEE SECTION B1/5 FOR DETAILS NOT SHOWN)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1006.05
Expiration Date June 29, 2016
By Manuel Perez
Miami-Dade Product Control

DRAWN BY: S.T.R.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 7/21/05

NO.	REVISION DESCRIPTION	BY	DATE

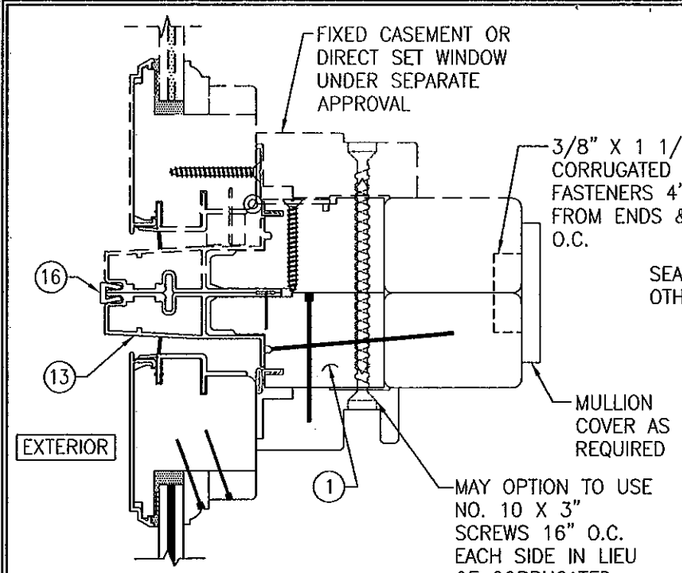
DRAWING TITLE
FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW

MANUFACTURER
HWD ACQUISITION, INC. dba HURD WINDOWS & DOORS
575 S. WHELEN AVE.
MEDFORD, WI 54451
800-433-4873

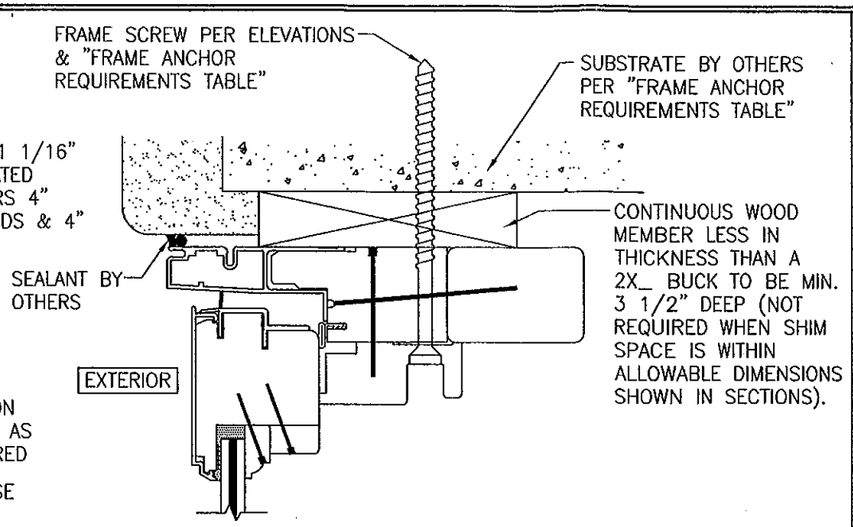
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE 561-744-3424

CERTIFICATION
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135
STATE OF FLORIDA
No. 44135
LICENSE
PROFESSIONAL ENGINEER

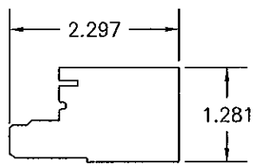
DRAWING NO.	REV.
1403	C
SHEET NO.	
5 OF 6	



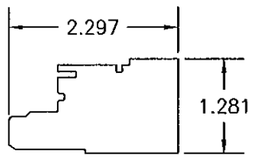
SECTION (E/6)
SCALE: 1/2 FULL



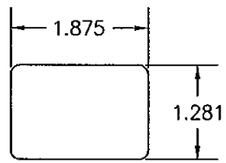
OPTIONAL DIRECT MOUNT DETAIL
TO BLOCK OR CONCRETE WITH SPACER OR SHIM
HEAD SECTION SHOWN, SIDES AND SILL SIMILAR



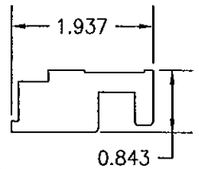
1 HEAD, SILL & HINGE JAMB



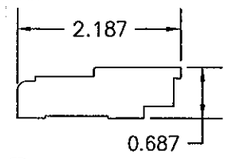
2 LOCK SIDE JAMB



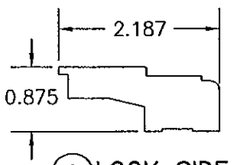
3 JAMB EXTENDER



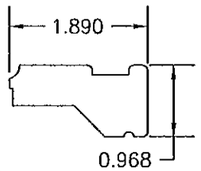
4 HEAD JAMB STOP



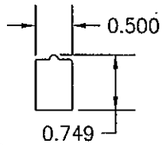
5 HINGE SIDE JAMB STOP



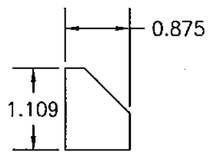
6 LOCK SIDE JAMB STOP



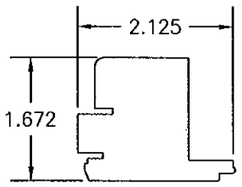
7 SILL COVER



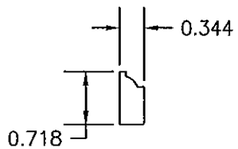
8 SILL LOWER SECTION



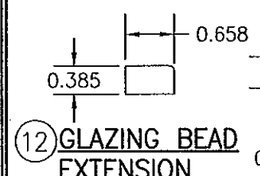
9 SILL STOP BLOCK



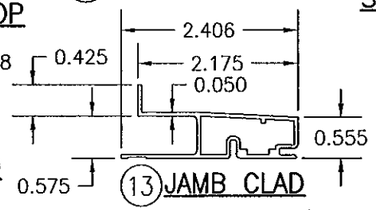
10 STILE AND RAIL



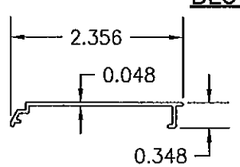
11 GLAZING BEAD



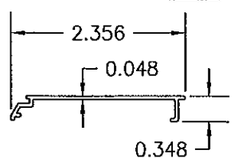
12 GLAZING BEAD EXTENSION



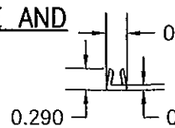
13 JAMB CLAD



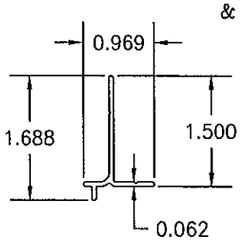
14 RAIL/STILE CLAD



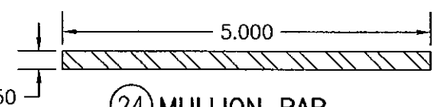
15 OPTIONAL RAIL CLAD



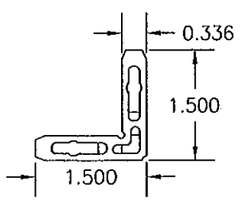
16 MULLION CLIP



17 NAIL FIN

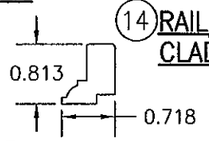


24 MULLION BAR

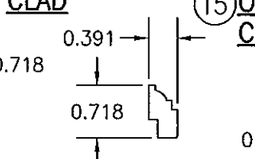


18 JAMB CORNER KEY

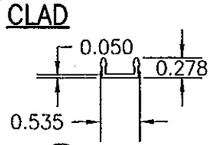
19 1-PIECE GLAZING BEAD
(USE WITH GLASS OPTION 1)



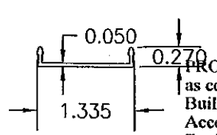
20 1-PIECE GLAZING BEAD
(USE WITH GLASS OPTIONS 2 & 3)



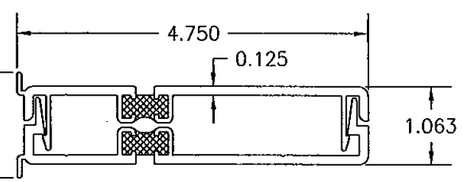
21 I.G. GLAZING BEAD



22 MULLION COVER



23 MULLION COVER



25 MULLION EXTRUSION

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 11-1006.05
Expiration Date June 29, 2016
By Manuel Perez
Miami Dade Product Control

ITEM #		ITEM DESCRIPTION	MANUFACTURER/NOTES
		PARTS	
1	CCSE 215	HEAD, SILL, & HINGE JAMB	* PONDEROSA/SUGAR PINE
2	CCSE 223	LOCK SIDE JAMB	* PONDEROSA/SUGAR PINE
3	CCSE 225	JAMB EXTENDER	* PONDEROSA/SUGAR PINE
4	CCSE 260	HEAD JAMB STOP	* PONDEROSA/SUGAR PINE
5	CCSE 245	HINGE SIDE JAMB STOP	* PONDEROSA/SUGAR PINE
6	CCSE 235	LOCK SIDE JAMB STOP	* PONDEROSA/SUGAR PINE
7	CCSE 285	SILL COVER	* PONDEROSA/SUGAR PINE
8	CCSE 290	SILL LOWER SECTION	* PONDEROSA/SUGAR PINE
9	CCSE 295	SILL STOP BLOCK	* PONDEROSA/SUGAR PINE
10	ECSE 200	STILE AND RAIL	* PONDEROSA/SUGAR PINE
11	ALWD 375	GLAZING BEAD	* PONDEROSA/SUGAR PINE
12	300-0025	GLAZING BEAD EXTENSION	* PONDEROSA/SUGAR PINE
13	CCSE 440	JAMB CLAD	6063-T6 ALUMINUM
14	ECSE 400	RAIL/STILE CLAD	6063-T5 ALUMINUM
15	ECSE 405	OPTIONAL RAIL CLAD	6063-T5 ALUMINUM
16	PA 115	MULLION CLIP	6060-T5 ALUMINUM
17	–	NAIL FIN	6063-T6 ALUMINUM
18	CCSE 620	JAMB CORNER KEY	NYLON 66 MATERIAL
19	216273	1-PIECE GLAZING BEAD	* PONDEROSA/SUGAR PINE
20	216275	1-PIECE GLAZING BEAD	* PONDEROSA/SUGAR PINE
21	–	I.G. GLAZING BEAD	* PONDEROSA/SUGAR PINE
22	–	MULLIN COVER	6063-T6 ALUMINUM
23	–	MULLIN COVER	6063-T6 ALUMINUM
24	–	MULLION BAR	6061-T6 ALUMINUM
25	–	MULLION EXTRUSION	6063-T6 ALUMINUM
		HARDWARE	
26		OPERATOR	AS REQUIRED
27	CCSE 711	SCISSOR HINGE	@ HEAD AND SILL
28	ECSE 155	MULTI-POINT LOCK SYSTEM	TRUTH
29	21642.92	2 PIECE SNUBBER	0.320" X 0.531" X 1.844" LONG STAMPED STEEL
		SEALS AND SEALANTS	
35	020546	FRAME WEATHERSTRIP	GREY SANTOPRENE FOAM
36	ECSE 625	SASH WEATHERSTRIP	VINYL
		FASTENERS	
40	092748	13 GA. 1 1/2" RING SHANK NAIL	4" FROM CORNERS & 6" TO 12" O.C.
41	011824	16 GA. 1 3/4" T-NAIL	1" FROM CORNERS & 6" TO 10" O.C. @ SILL COVER & SILL LOWER SECTION AND 1 PER SILL BLOCK
43	013801	#8 X 1 1/4" PH S.S. SMS	2 PER LOCK STRIKE
44	010226	AUTO WIRE NAIL	2" FROM CORNERS & 6" TO 8" O.C.
45	024617	2 1/2" X 1" CROWN STAPLE	2" FROM CORNERS & 10 O.C.
46	019892	#18 x 1/2" GSN STAPLE	2" FROM CORNERS & 7" TO 10" O.C.
47	–	#6 X 5/8" PH SCREW	2" FROM CORNERS & 9" O.C.
48	–	NO. 8 X 1 1/4" S.S. SMS	2 PER SNUBBER INTO SASH
49	–	NO. 7 X 1/2" S.S. SMS	2 PER SNUBBER INTO FRAME

NOTE: WOOD USED IN TESTING WAS PONDEROSA PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY HURD WINDOWS & DOORS TO SELECT.

DRAWN BY: S.T.R. | CHECKED BY: W.W.S.
PLOT: 1=2 | DATE: 7/21/05

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
FEEL SAFE ALUMINUM CLAD WOOD IMPACT OPERABLE CASEMENT WINDOW

MANUFACTURER
HWD ACQUISITION, INC. dba
HURD WINDOWS & DOORS
575 S. WHELEN AVE.
MEDFORD, WI 54451
800-433-4873

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

OCT 04 2011

DRAWING NO. 1403 | REV. C
SHEET NO. 6 OF 6